

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/090004 A1

(51) International Patent Classification⁷: **C08F 220/34**,
220/60

(CA). SKARJA, Gary [US/CA]; 33 Erskine Avenue,
#603, Toronto, Ontario M4P 1Y6 (CA).

(21) International Application Number:
PCT/CA2004/000529

(74) Agents: SILVER, Gail, C. et al.; Borden Ladner Gervais
LLP, World Exchange Plaza, 100 Queen Street, Suite 1100,
Ottawa, Ontario K1P 1J9 (CA).

(22) International Filing Date: 7 April 2004 (07.04.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/460,409 7 April 2003 (07.04.2003) US
60/530,261 18 December 2003 (18.12.2003) US

(71) Applicant (*for all designated States except US*): RIMON
THERAPEUTICS LTD. [CA/CA]; 200 College Street,
Toronto, Ontario M5S 3E5 (CA).

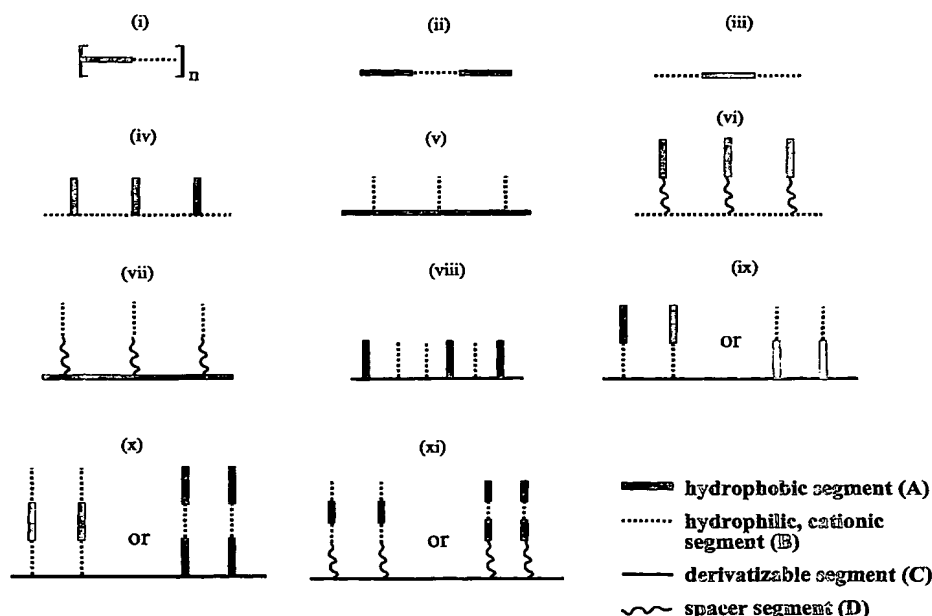
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): MAY, Michael, H.
[CA/CA]; 9 Terrance Drive, Brantford, Ontario N3R 3G2

[Continued on next page]

(54) Title: ANCIENT DEFENSE POLYMER



(57) Abstract: The invention relates to an ancient defense polymer having biological activity. The polymer comprises both discrete hydrophilic blocks containing cationic charge(s) and discrete hydrophobic blocks, making it amphipathic and antimicrobial in a manner analogous to natural antimicrobial peptides that form an ancient defense mechanism employed by many organisms. Such a polymer may be formed into devices designed to resist infection or bound to the surface of an apparatus to lend the biological activity to the surface of the apparatus.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*